ABSTRACT OF THE DISCLOSURE

A sound signal including either one or both of a voice signal section and a DTMF signal section is inputted to a sound signal matching/recognizing part via a sound signal input part.   The sound signal is divided into a sound signal section by a sound signal analyzing part.   A matching part conducts a matching process of a sound signal with reference to both a DTMF signal model and a voice signal model.   A recognizing part is provided with a language model including a word dictionary and grammar information, and recognizes a sound signal by using the language model based on the matching result of the matching part.